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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/917,998	07/30/2001	Marco Steiger	G 3752	1503

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EXAMINER

MCDONALD, SHANTESE L

ART UNIT

PAPER NUMBER

3723

DATE MAILED: 07/01/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.  
09/917,998

Applicant(s)  
Steiger et al.

Examiner  
Shantese McDonald

Art Unit  
3723



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on Mar 11, 2002.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above, claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claims \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some\* c) ☐ None of:
- ☒ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \*See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s). \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

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## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-3,6,9,10, 12,13 and 15-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Fletcher et al.

Fletcher et al. teaches a tool for use with a manually operable material removal apparatus comprising a flat elongated member, 10, having a first section, 12, provided with an aperture, 14,15,16, which allows the member to be mounted on an output shaft, and a second section, 8, remote from the first section and including material removing cutting teeth, 2. Fletcher et al. also teaches that cutting teeth are formed by adjoining two straight cutting edge sections at acute angles, (fig. 2). Fletcher et al. also teaches a slot, 24, provide for facilitating removal of cut material, provided in the elongated member between the first and second sections. Fletcher et al. teaches that the elongated member has a substantially constant width at least between the first and second sections, (fig. 1), and the member having a substantially trapeziform outline, (fig. 6a), and the elongated member comprising a third section, disposed between the first and second sections

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having a first width, at least one of the first and second sections having a second width different from the first width, (fig. 6a).

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 4 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fletcher et al. in view of Arntz et al.

Fletcher et al. teaches all the limitations of the claims except for the material removing elements comprising diamonds and corundum. Arntz et al. teaches material removing elements, 35, comprising diamonds and corundum, (col. 4, lines 55-56). It would have been obvious to one having ordinary skill in the art at the time the invention was made to make the material removing elements of Fletcher et al. with diamond and corundum, as taught by Arntz et al., in order to enhance the elements removing capabilities, and to make them more durable.

5. Claims 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fletcher et al.

Fletcher et al. teaches all the limitations of the claims except for the acute angle being between 1.5 and 4.6 and 1.5 and 2 degrees. It would have been obvious to one having ordinary

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skill in the art at the time the invention was made to make the acute angle of Fletcher et al. between 1.5 and 4.6 and 1.5 and 2 degrees, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art.

6. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Fletcher et al in view of Nitz et al.

Fletcher et al. teaches all the limitations of the claims except for the elongated section being provided with a step intermediate the first and second sections, the step having a predetermined height and further comprising a fastener arranged to attach the first section to the shaft and extending beyond the elongated member through a distance at least approximating the height. Nitz et al. teaches the above limitation, (fig. 10, col. 4, lines 66 and 67 and col. 5, lines 1-8). It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the tool of Fletcher et al. with an elongated section being provided with a step intermediate the first and second sections, the step having a predetermined height and further comprising a fastener arranged to attach the first section to the shaft and extending beyond the elongated member through a distance at least approximating the height, as taught by Nitz et al. in order to enhance the range of the tools cutting capabilities.

7. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Fletcher et al. in view of Miller et al.

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Fletcher et al. teaches all the limitations of the claims except for the at least one cutting edge having a first and second ends and the removal facilitating means comprising recessed portions at the ends of the at least one cutting edge intermediate the first and second sections.

Miller et al. teaches a cutting edge with the limitations cited above, (fig. 5B). It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the tool of Fletcher et al. with at least one cutting edge having a first and second ends and the removal facilitating means comprising recessed portions at the ends of the at least one cutting edge intermediate the first and second sections, as taught by Miller et al., in order to enhance the range of the tools cutting capabilities.

8. Claims 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fletcher et al. in view of Hugo.

Fletcher et al. teaches all the limitations of the claims except for a tool kit containing a plurality of discrete tools having different parameters . Hugo et al. teaches a set of tools which differ from one another due to different shapes and/or sizes and/or intended uses., (col. 6, lines 11-14). It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the invention of Fletcher et al. with a tool kit containing a plurality of discrete tools having different parameters, as taught by Hugo et al., in order to vary the cutting capabilities based on the variation of the intended use.

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***Conclusion***

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Winter, Pappas, Petersen et al. and Ender were cited to show other examples of cutting tools.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shantese McDonald whose telephone number is (703) 308-8722.

A handwritten signature in black ink, appearing to read "Joseph J. Hail, III". The signature is fluid and cursive, with a stylized "H" and "I" at the end.

Joseph J. Hail, III  
Supervisory Patent Examiner  
Technology Center 3700

S.L.M.

June 21, 2002